Access DB# 197957

SEARCH REQUEST FORM

Scientific and Technical Information Center

			e 1
Requester's Full Name:	3000	Examiner #:	Date: 8/8/06
Art Unit: 1751 Phone	Number 30 Z		: 16 568,638
Mail Box and Bldg/Room Location	on: PAY((circle): PAPER DISK E-MAIL
If more than one search is sub	mitted, please:p	rioritize searches in orde	r of need.
Please provide a detailed statement of th	e search topic, and de	escribe as specifically as possible	e the subject matter to be searched
Include the elected species or structures, utility of the invention. Define any term known. Please attach a copy of the covered to the covere	is that may have a spe	ecial meaning. Give examples o	ers, and combine with the concept or r relevant citations, authors, etc, if
Title of Invention:			CIENTIFIC REFERENCE BR
Inventors (please provide full names):			Scl 2 Tech Info Cntc
			AUG 5 n
Earliest Priority Filing Date:			Pat. & T.M. Office
For Sequence Searches Only Please incl	ude all pertinent inform	nation (parent, child, divisional, or	issued patent numbers) along with the
appropriate serial number.			-
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STAFF USE ONLY	Type of Search	Vendors and	cost where applicable
Searcher: M&H	NA Sequence (#)		eost where applicable
Searcher Phone #:	AA Sequence (#)	Dialog	
Searcher Location:	Structure (#)	Questel/Orbit	
Date Searcher Picked Up:	Bibliographic 3 \$ u	users)	
Date Completed: 8/4/06	Litigation		
Searcher Prep & Review Time:	Fulltext		
Clerical Prep Time:	Patent Family	WWW/Internet	
Online Time:	Other	Other (specify)	

PTO-1590 (8-01)



UNITED STATES PATENT AND TRADEMARK OFFICE

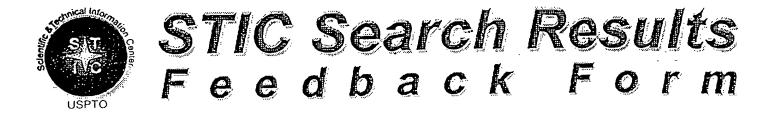
UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.urpto.gov



Bib Data Sheet

CONFIRMATION NO. 2670

SERIAL NUMBER 10/568,638	FILING OR 371(c) DATE 02/16/2006 RULE CLASS GROUP ART UNIT 1751					ATTORNEY DOCKET NO. TW422941APCT				
Hauke Rohwer, Rene Schlatter, Robert Hochbe ** CONTINUING DAT This application ** FOREIGN APPLIC EUROPEAN P	Grenzach-Wyhlen, GE Lorrach, GERMANY; Basel, SWITZERLAND rg, Merzhausen, GERM A************************************); ANY; * 51767 08 **** 0310261	8/11/2004 6.4 08/21/2003	3						
Verified and	yes no s yes no no Met aff Allowance miner's Signature	itials	STATE OR COUNTRY GERMANY	DRA	SHEETS TOT DRAWING CLAI 0 13			INDEPENDENT CLAIMS 1		
TITLE Optical brighteners				,				·		
FILING FEE FEES RECEIVED No 900 No	NT	1.1 time)	6 Fees (7 Fees (8 Fees (Proce	essing Ext. of					



EIC17000

Questions about the scope or the results of the search? Contact the EIC searcher or contact:

Kathleen Fuller, EIC 1700 Team Leader 571/272-2505 REMSEN 4B28

Voluntary Results Feedback Form
 I am an examiner in Workgroup: Example: 1713 Relevant prior art found, search results used as follows:
102 rejection
☐ 103 rejection
Cited as being of interest.
Helped examiner better understand the invention.
Helped examiner better understand the state of the art in their technology.
Types of relevant prior art found:
Foreign Patent(s)
 Non-Patent Literature (journal articles, conference proceedings, new product announcements etc.)
> Relevant prior art not found:
Results verified the lack of relevant prior art (helped determine patentability).
Results were not useful in determining patentability or understanding the invention.
Comments:

```
=> fil req
FILE 'REGISTRY' ENTERED AT 17:13:50 ON 09 AUG 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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(FILE 'HOME' ENTERED AT 10:34:01 ON 09 AUG 2006)
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FILE 'HCAPLUS' ENTERED AT 10:34:22 ON 09 AUG 2006
           E WO2004-EP51767/APPS
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L4
               STR L3
L5
            50 S L4
L6
          3020 S L4 FUL
               SAV L6 HAR638/A
L7
               STR L4
L8
               STR L7
            13 S L7 SSS SAM SUB=L6
L9
L10
            20 S L2 AND L6
·L11
               STR L8
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            0 S L11 SSS SAM SUB=L6
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L14
(15)
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              STR L18
L21
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FILE 'HCAPLUS' ENTERED AT 16:52:15 ON 09 AUG 2006

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L32 1 S L1 OR L29 OR L30 4 S L10

L33

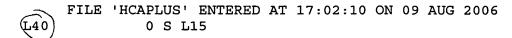
L34 1873 S L6

12 S L31 NOT (L29 OR L30) L35

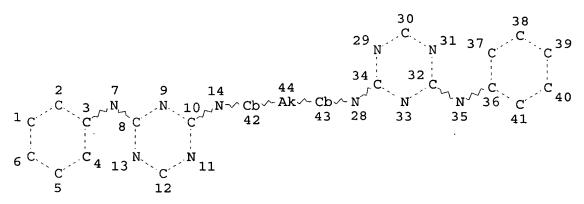
L36 3 S L33 NOT L31

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0 S L13 L37 L38 0 S L23 L39 2 S L24



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NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

GGCAT IS UNS AT 42

GGCAT IS UNS AT 43

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 31

STEREO ATTRIBUTES: NONE

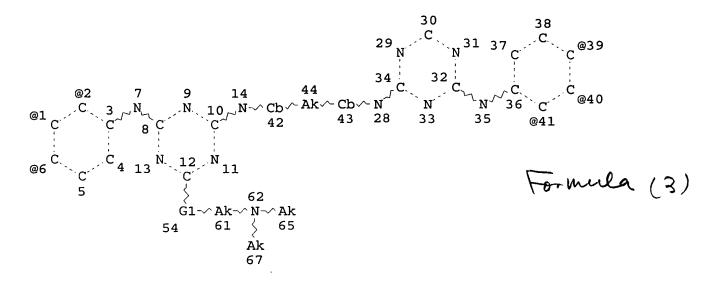
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L11 STR LII STR

 $O \stackrel{\longleftarrow}{=} C \stackrel{\longleftarrow}{=} N$ 55 @56 57

58 @59 60





VAR G1=0/N VPA 56-2/1/6 U VPA 59-41/40/39 U NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM GGCAT IS UNS AT 42 IS UNS AT 43 GGCAT

GGCAT IS SAT AT 61 GGCAT IS SAT AT 65

GGCAT AT 67 IS SAT

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 46

STEREO ATTRIBUTES: NONE

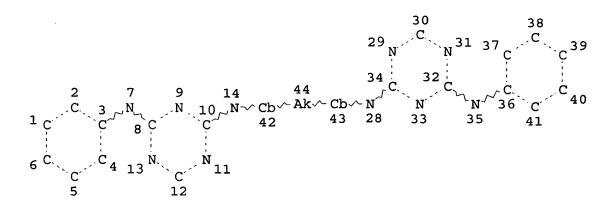
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100.0% PROCESSED 336 ITERATIONS

SEARCH TIME: 00.00.01

9 ANSWERS

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GGCAT IS UNS AT 42

GGCAT IS UNS AT 43

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

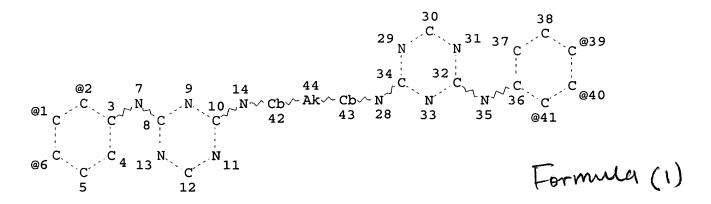
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 31

STEREO ATTRIBUTES: NONE

L6 3020 SEA FILE=REGISTRY SSS FUL L4

L21 STR ·



VPA 56-2/1/6 U VPA 59-41/40/39 U 68

NODE ATTRIBUTES:

NSPEC IS RC AT 64
NSPEC IS RC AT 66
NSPEC IS RC AT 67
NSPEC IS RC AT 68
DEFAULT MLEVEL IS ATOM
GGCAT IS UNS AT 42
GGCAT IS UNS AT 43
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 46

STEREO ATTRIBUTES: NONE

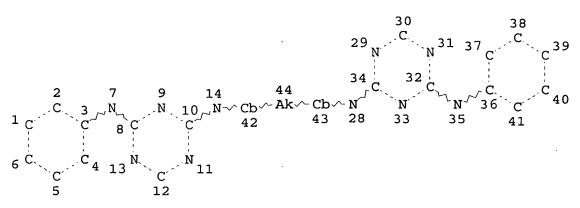
L23 2 SEA FILE=REGISTRY SUB=L6 SSS FUL L21

100.0% PROCESSED 2957 ITERATIONS

SEARCH TIME: 00.00.08

2 ANSWERS

=> d 124 que stat L4 STR



NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

GGCAT IS UNS AT 42

GGCAT IS UNS AT 43

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

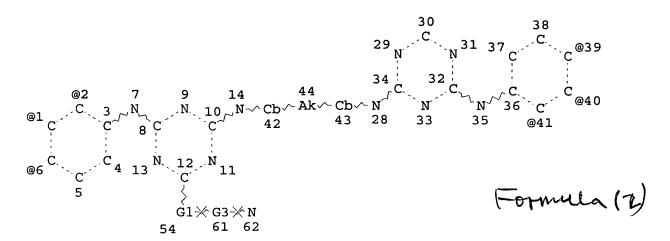
RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 31

STEREO ATTRIBUTES: NONE

L6 3020 SEA FILE=REGISTRY SSS FUL L4

L18 STR



VAR G1=O/N
VAR G2=O/N
REP G3=(1-10) 63
VPA 56-2/1/6 U
VPA 59-41/40/39 U
NODE ATTRIBUTES:
NSPEC IS RC AT 63
DEFAULT MLEVEL IS ATOM
GGCAT IS UNS AT 42
GGCAT IS UNS AT 43
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 45

STEREO ATTRIBUTES: NONE

L24 68 SEA FILE=REGISTRY SUB=L6 SSS FUL L18

100.0% PROCESSED 776 ITERATIONS (2 INCOMPLETE) 68 ANSWERS

SEARCH TIME: 00.00.12

=> d l15 fide

L15 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN RN 845958-46-5 REGISTRY

ED Entered STN: 21 Mar 2005

CN 1-Propanaminium, 3,3'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[[4-[[[3-(trimethylammonio)propyl]amino]carbonyl]phenyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis[N,N,N-trimethyl-,bis(inner salt) (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C58 H84 N18 O8 S2

CI COM

SR CA

Ring System Data

Elemental	Elemental	Size of	Ring System	Ring	RID
Analysis	Sequence	the Rings	Formula	Identifier	Occurrence
EA	ES	SZ	RF	RID	Count
=======	}========	+========	-==========	}========	}=======
C6	C6	6		46.150.18	
C3N3	NCNCNC	6	C3N3	46.492.16	2

PAGE 1-A

$$O Me_3+N-(CH_2)_3-NH$$
 $O Me_3+N-(CH_2)_3-NH$ $O Me_3+N-(CH_2)_3-NH$

PAGE 1-B

=> fil hcap

FILE 'HCAPLUS' ENTERED AT 17:14:58 ON 09 AUG 2006
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the current Application

=> d 129 ibib abs hitstr hitind

L29 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2005:182641 HCAPLUS

DOCUMENT NUMBER:

142:263003

TITLE:

Triazinylaminostilbene derivative optical

brighteners for fibers and paper

INVENTOR(S):

Scheffler, Goetz; Rohwer, Hauke; Schlatter,

Rene; Hochberg, Robert

PATENT ASSIGNEE(S):

Ciba Specialty Chemicals Holding Inc., Switz.

SOURCE:

PCT Int. Appl., 30 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

1

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	PATENT NO.					KIND DATE				APPL	DATE						
	WO	2005	0191	89		A1		2005	0303		WO 2	004-1	EP51	767		2	00408
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		W:				-		AU,		-						-	-
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						-	-	LS,			-	-			-		-
								NZ,			-						-
			SE,	SG,	SK,	SL,	SY,	ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,
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		RW:						MW, MD,									-
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	AU	2004	2668	51		A1		2005	0303	4	AU 2	004-2	2668	51		2	00400
																1	00408
	ΕP	1656	356			A1		2006	0517		EP 2	004-	7664	70			•
																2	00408
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PRIOR	ZTIS	APP		-		FI,	κο,	CI,	IK,		C乙, EP 20			-		A	
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										1	WO 2	004-1	EP51	/67	,	√ 7	00408
																1:	

OTHER SOURCE(S):

MARPAT 142:263003

AB Bis(triazinylamino)stilbenes are suitable as UV absorbers and fluorescent whiteners for textile materials, such as fibers and paper, and also bring about an increase in the treated textile material.

IT 845890-47-3P 845890-48-4P 845890-49-5P 845890-57-5P 845890-60-0P 845890-61-1P

845890-62-2P 845890-63-3P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(prepn. of triazinylaminostilbene deriv. optical brighteners for fibers and paper)

RN 845890-47-3 HCAPLUS

CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[[3-(dimethylamino)propyl]amino]-6-[[4-[[[3-(dimethylamino)propyl]amino]carbonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-A

Me₂N- (CH₂)₃-NH-C NH SO₃H
$$N = NH - CH = CH - CH$$

PAGE 1-B

SO₃H NH- (CH₂)₃-NMe₂
$$\stackrel{O}{\mid \mid}$$
 C-NH- (CH₂)₃-NMe₂ $\stackrel{O}{\mid \mid}$ NH NH NH

RN 845890-48-4 HCAPLUS

CN 1-Propanaminium, 3,3'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[[4-[[[3-(trimethylammonio)propyl]amino]carbonyl]phenyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis[N,N,N-trimethyl-,bis(inner salt), dichloride (9CI) (CA INDEX NAME)

●2 Cl-

PAGE 1-B

RN 845890-49-5 HCAPLUS

CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[[3-(dimethylamino)propyl]amino]-6-[[4-[[(2-hydroxyethyl)amino]carbonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-(9CI) (CA INDEX NAME)

PAGE 1-A

HO-
$$CH_2$$
- CH_2 - NH - CH_2) 3- NH SO3H NH - NH -

PAGE 1-B

RN 845890-57-5 HCAPLUS

CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[[3-[(3-aminopropyl)methylamino]propyl]amino]-6-[[4-[[(2-hydroxyethyl)amino]carbonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-(9CI) (CA INDEX NAME)

PAGE 1-B

$$\begin{array}{c|c}
\hline
 & \text{NH} & \text{NH} \\
\hline
 & \text{N} & \text{NH} \\
\hline
 & \text{C-NH-CH}_2\text{-CH}_2\text{-OH} \\
\hline
 & \text{O}
\end{array}$$

RN 845890-60-0 HCAPLUS

CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[2-(dimethylamino)ethoxy]-6-[[4-[[(2-hydroxyethyl)amino]carbonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

RN 845890-61-1 HCAPLUS

CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[[3-(diethylamino)propyl]amino]-6-[[4-[[(2-hydroxyethyl)amino]carbonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-A

HO-
$$CH_2$$
- CH_2 - NH - CH - CH - NH

PAGE 1-B

RN 845890-62-2 HCAPLUS

CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[[4-(aminocarbonyl)phenyl]amino]-6-[[3-(diethylamino)propyl]amino]-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-A

O Et₂N- (CH₂)₃-NH SO₃H SO₃H
$$\frac{1}{N}$$
 NH CH CH $\frac{1}{N}$ NH

PAGE 1-B

RN 845890-63-3 HCAPLUS

CN Benzenesulfonic acid, 2,2'-(1,2-ethenediyl)bis[5-[[4-[[3-(diethylamino)propyl]amino]-6-[[4-[(methylamino)carbonyl]phenyl]amin o]-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

IC ICM C07D251-70

ICS C08K005-3492

CC 40-9 (Textiles and Fibers)

Section cross-reference(s): 43

IT 845890-46-2P 845890-47-3P 845890-48-4P

845890-49-5P 845890-50-8P 845890-52-0P 845890-53-1P

845890-54-2P 845890-56-4P **845890-57-5P** 845890-58-6P

845890-59-7P 845890-60-0P 845890-61-1P

845890-62-2P 845890-63-3P

RL: IMF (Industrial manufacture); TEM (Technical or engineered

material use); PREP (Preparation); USES (Uses)

(prepn. of triazinylaminostilbene deriv. optical brighteners for

fibers and paper)

REFERENCE COUNT:

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN

THE RE FORMAT

=> d 135 ibib abs hitstr hitind 1-12

L35 ANSWER 1 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

2006:410059 HCAPLUS

DOCUMENT NUMBER:

144:452211

TITLE:

Amphoteric 4-4'-bis(triazinylamino) stilbene-2,

2'-disulfonic acid derivatives as optical

brighteners for paper

INVENTOR(S):

Scheffler, Goetz; Schlatter, Rene

PATENT ASSIGNEE(S):

Ciba Specialty Chemicals Holding Inc., Switz.

SOURCE:

PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

Γ: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

WO 2006045691	A1	20060504	WO 2005-EP55122	200510

08/09/2006

10

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AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA,
             CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
             GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM,
             KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK,
             MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO,
             RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ,
             UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
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             BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,
             TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
             ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
                                            EP 2004-105184
PRIORITY APPLN. INFO.:
                                                                    200410
                                                                    20
```

AB The present invention provides 4,4'-bis(triazinylamino)stilbene-2,2'-disulfonic acid derivs. and compns., a process for their prepn., aq. formulations thereof, their use as an optical brightener for paper and to paper treated with these derivs.

IT 885476-06-2P 885476-07-3P 885476-08-4P 885476-09-5P 885476-10-8P 885476-11-9P 885476-12-0P 885476-13-1P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)

(amphoteric 4-4'-bis(triazinylamino) stilbene-2, 2'-disulfonic acid derivs. as optical brighteners for paper)

RN 885476-06-2 HCAPLUS

CN Benzoic acid, 4,4'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[[3-[(3-aminopropyl)methylamino]propyl]amino]-1,3,5-triazine-4,2-diyl]]imino]bis-, disodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

●2 Na

PAGE 1-B

RN 885476-07-3 HCAPLUS

CN Benzoic acid, 4,4'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[(2-aminoethyl)amino]-1,3,5-triazine-4,2-diyl]]imino]bis-, disodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

$$H_2N-CH_2-CH_2-NH$$
 SO_3H SO_3H HO_2C NH NH NH

●2 Na

PAGE 1-B

RN 885476-08-4 HCAPLUS

CN Benzoic acid, 4,4'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[3-(diethylamino)propyl]amino]-1,3,5-triazine-4,2-diyl]]imino]bis-, disodium salt (9CI) (CA INDEX NAME)

●2 Na

PAGE 1-B

RN 885476-09-5 HCAPLUS

CN Benzoic acid, 4,4'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[[3-(dimethylamino)propyl]amino]-1,3,5-triazine-4,2-diyl]]imino]bis-, disodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

$$Me_2N-(CH_2)_3-NH$$
 SO_3H SO_3H HO_2C NH NH NH NH NH NH

●2 Na

PAGE 1-B

$$\begin{array}{c|c} \text{NH- (CH}_2)_3 - \text{NMe}_2 \\ \hline \\ \text{N} & \text{NH- NH- CO}_2\text{H} \\ \hline \end{array}$$

RN 885476-10-8 HCAPLUS

CN Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[(2-aminoethyl)amino]-1,3,5-triazine-4,2-diyl]]imino]bis-, disodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

H2N-CH2-CH2-NH
SO3H
NH
CH-CH-CH-NH
NN
NH
NH
NH

•2 Na

PAGE 1-B

— сн₂— сн₂— ин₂

но2С

RN 885476-11-9 HCAPLUS

CN Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[3-(diethylamino)propyl]amino]-1,3,5-triazine-4,2-diyl]]imino]bis-, disodium salt (9CI) (CA INDEX NAME)

●2 Na

$$-$$
 (CH₂)₃-NEt₂

RN 885476-12-0 HCAPLUS

CN Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[[3-(4-morpholinyl)propyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis-, disodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

•2 Na

PAGE 1-B

RN 885476-13-1 HCAPLUS

CN Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[4-(2-hydroxyethyl)-1-piperazinyl]-1,3,5-triazine-4,2-diyl]imino]]bis-, disodium salt (9CI) (CA INDEX NAME)

PAGE 1-A
HO—
CO₂H

NH
SO₃H
SO₃H
SO₃H
NH
NH
NH
NH

●2 Na

PAGE 1-B

```
- CH<sub>2</sub>- CH<sub>2</sub>

N
HO<sub>2</sub>C
N
N
N
N
```

CC 43-7 (Cellulose, Lignin, Paper, and Other Wood Products)

Section cross-reference(s): 41

IT 885476-04-0P 885476-05-1P 885476-06-2P

885476-07-3P 885476-08-4P 885476-09-5P

885476-10-8P 885476-11-9P 885476-12-0P

885476-13-1P 885476-14-2P 885476-15-3P 885476-16-4P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use);

PREP (Preparation); USES (Uses)

(amphoteric 4-4'-bis(triazinylamino) stilbene-2, 2'-disulfonic

acid derivs. as optical brighteners for paper)

REFERENCE COUNT:

THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L35 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1998:466333 HCAPLUS

DOCUMENT NUMBER:

129:123760

TITLE:

Preparation of triazinylaminostilbenes as

ultra-violet absorbing agents for textile fibers

INVENTOR(S):

Eckhardt, Claude; Metzger, Georges; Reinehr,

Dieter; Sauter, Hanspeter; Dubini, Mario

PATENT ASSIGNEE(S):

Ciba Specialty Chemicals Holding Inc., Switz.

SOURCE:

Eur. Pat. Appl., 19 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 850934	<u>A1</u>	19980701	EP 1997-810986	199712 16
EP 850934	B1	20040310	L LOF	10

MEI HUANG EIC1700 REM4B28 571-272-3952

08/09/2006

	R:						ES, FI,		GB,	GF	٤, ا	ΙΤ,	LI,	LU,	NL,	SI	Ξ,	MC	,
GB	2320				A1		1998			GB	199	97-:	2550	1			19	997:	12
ES	2214	601			Т3		2004	916		ES	199	97-8	3109	86				997:	12
ZA	9711	567			A		1998	0624		ZA	199	97-:	1156	7			16		
														_			19 23	997: B	12
AU	9749	256			A1		1998	0625		AU	199	97-4	1925	6			19	97:	12
	7395 1191				B2 A		2001			CNT	100		1072	70					
CIV	TIDI	991			A		1990	7902		CIV	193	,	1072	76			19 23	97: B	12
	1118 9705				B A		20030			BR	199	97-!	5635						
)													19 23	97: B	12
US	5945	396		/	A		1999	0831		US	199	97-9	9968	95			19	97:	12
JP	1018	2622			A2		1998	707		JP	199	97-3	3549	22				97:	12
PRIORITY	Z APP	LN.	INFO	. :						GB	199	96-2	2685:	1	1	Ą	24	<u> </u>	
																	19 24	96:	12
OTHER SO	OURCE	(S):			MARP	ΑТ	129:	12376	0										
02												c	1	W					
												.C	\mathcal{Y}						
R? N N	— ин-		S	О3М — СН∶	=CH	<u></u>		- NH	N- N-	\prec	R? N								
R?					MO38	/ S				\	R?	1	•						

AB The present invention provides a compd. having the formula [I; in which each Rd is the same or different and each is NH-Z-N(Ra)(Rb) or N-[Z-N(Ra)(Rb)]2 in which Z is C2-14 alkylene or optionally substituted arylene, Ra and Rb are the same or different and each is

C1-12 alkyl, or Ra and Rb, together with the nitrogen atom to which they are each attached, form a morpholino, piperidino or piperazino ring; each Rc is the same or different and is NH2, NH(C1-4 alkyl), N(C1-4 alkyl)2, N(CH2CH2OH)2, O-C1-4 alkyl, p-(MO2C)C6H4NH, (MO3S)C6H4NH, or morpholino and M is hydrogen, an alkali metal atom, ammonium or a cation formed from an amine] or a quaternized form thereof. The present invention also relates to a compn. for the treatment of textiles, in particular to a compn. contg. the new ultra-violet absorbing agents; and to a method for the improvement of both the sun protection factor (UPF) and the whiteness of textile fiber material, comprising treating the material with the compn. according to the present invention. Thus, I (Rd = Cl, Rc = NH2, M = Na) was heated with 3-dimethylamino-1-propylamine in an oil bath held at 90° to give I [Rd = NH(CH2)3NMe2, Rc = NH2, M = Na] (II). A rinse cycle softener base compn. contg. 2.7% II, distearyldimethylammonium chloride, fatty alc. ethoxylate, and deionized water was prepd. The latter compn. improved the Ganz whiteness and UPF of a cotton fabric.

IT 210101-86-3P

RL: IMF (Industrial manufacture); PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(prepn. of triazinylaminostilbenes as ultra-violet absorbing agents for textile fibers)

RN 210101-86-3 HCAPLUS

CN Benzoic acid, 4,4'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[2-(dimethylamino)ethyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis-, tetrasodium salt (9CI) (CA INDEX NAME)

```
ICM C07D251-54
IC
     ICS D06M013-355
CC
     40-7 (Textiles and Fibers)
     210101-78-3P
                  210101-79-4P
IT
                                   210101-81-8P 210101-82-9P
     210101-83-0P
                  210101-84-1P 210101-85-2P 210101-86-3P
     RL: IMF (Industrial manufacture); PRP (Properties); SPN (Synthetic
     preparation); TEM (Technical or engineered material use); PREP
     (Preparation); USES (Uses)
        (prepn. of triazinylaminostilbenes as ultra-violet absorbing
        agents for textile fibers)
REFERENCE COUNT:
                               THERE ARE 9 CITED REFERENCES AVAILABLE FOR
                               THIS RECORD. ALL CITATIONS AVAILABLE IN
                               THE RE FORMAT
L35 ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:
                         1986:20729 HCAPLUS
DOCUMENT NUMBER:
                         104:20729
TITLE:
                         Synthesis of 4,4'-bis-[-4-(phenylurea)-6-
                         (carboxysulfoanilino)-s-triazine-2-ylamino]-
                         stilbene-2,2'-disulfonic acid as fluorescent
                         brightening agent
AUTHOR(S):
                         Desai, K. R.; Vashi, D. M.
                         Dep. Chem., South Gujarat Univ., Surat, 395 007,
CORPORATE SOURCE:
                         India
SOURCE:
                         Journal of the Institution of Chemists (India)
                         (1985), 57(2), 53-4
                         CODEN: JOICA7; ISSN: 0020-3254
DOCUMENT TYPE:
                         Journal
LANGUAGE:
                         English
     Derivs. of the title fluorescent brightener, useful for whitening
AB
     nylon fabrics, were prepd. by condensing 4,4'-diaminostilbene-2,2'-
     disulfonic acid [81-11-8], with cyanuric chloride [108-77-0],
     5-sulfoanthranilic acid [3577-63-7], and phenylurea derivs. The
     m-tolylurea deriv. [87570-80-7] had the best whitening
     effect on nylon, and the p-nitrophenylurea deriv.
     87570-83-0] had the lowest effect.
IT
     87570-78-3 87570-79-4 87570-80-7
     87570-81-8 87570-82-9 87570-83-0
     87570-84-1 87570-85-2 87570-86-3
     87588-72-5
    RL: USES (Uses)
        (fluorescent brighteners, for nylon fabrics, prepn. of)
RN
     87570-78-3 HCAPLUS
CN
    Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-
     [[(phenylamino)carbonyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis[5-
     sulfo-, tetrasodium salt (9CI) (CA INDEX NAME)
```

•4 Na

PAGE 1-B

RN 87570-79-4 HCAPLUS

CN Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[[(2-methylphenyl)amino]carbonyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis[5-sulfo-, tetrasodium salt (9CI) (CA INDEX NAME)

•4 Na

PAGE 1-B

RN 87570-80-7 HCAPLUS

CN Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[[(3-methylphenyl)amino]carbonyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis[5-sulfo-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

•4 Na

PAGE 1-B

RN 87570-81-8 HCAPLUS

CN Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[[(4-methylphenyl)amino]carbonyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis[5-sulfo-, tetrasodium salt (9CI) (CA INDEX NAME)

●4 Na

PAGE 1-B

RN 87570-82-9 HCAPLUS

CN Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[[(2-nitrophenyl)amino]carbonyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis[5-sulfo-, tetrasodium salt (9CI) (CA INDEX NAME)

•4 Na

PAGE 1-B

RN 87570-83-0 HCAPLUS

CN Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[[(4-nitrophenyl)amino]carbonyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis[5-sulfo-, tetrasodium salt (9CI) (CA INDEX NAME)

$$O_{2N}$$
 $NH-C-NH-NH$
 NH
 SO_{3H}
 SO_{3H}
 SO_{3H}

•4 Na

PAGE 1-B

RN 87570-84-1 HCAPLUS

CN Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[[(2-chlorophenyl)amino]carbonyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis[5-sulfo-, tetrasodium salt (9CI) (CA INDEX NAME)

●4 Na

PAGE 1-B

RN 87570-85-2 HCAPLUS

CN Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[[(3-chlorophenyl)amino]carbonyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis[5-sulfo-, tetrasodium salt (9CI) (CA INDEX NAME)

•4 Na

PAGE 1-B

RN 87570-86-3 HCAPLUS

CN Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[[(4-chlorophenyl)amino]carbonyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis[5-sulfo-, tetrasodium salt (9CI) (CA INDEX NAME)

•4 Na

PAGE 1-B

RN 87588-72-5 HCAPLUS

CN Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[[(3-nitrophenyl)amino]carbonyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis[5-sulfo-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

●4 Na

PAGE 1-B

CC 41-10 (Dyes, Organic Pigments, Fluorescent Brighteners, and

Photographic Sensitizers)

IT 87570-78-3 87570-79-4 87570-80-7

87570-81-8 87570-82-9 87570-83-0

87570-84-1 87570-85-2 87570-86-3

87588-72-5

RL: USES (Uses)

(fluorescent brighteners, for nylon fabrics, prepn. of)

L35 ANSWER 4 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1983:577485 HCAPLUS

DOCUMENT NUMBER: 99:177485

TITLE: Thin layer chromatography of some modern optical

whitening agents

AUTHOR(S): Desai, K. R.; Vashi, D. M.

CORPORATE SOURCE: Dep. Chem., South Gujarat Univ., Surat, 395 007,

India

SOURCE: Journal of the Institution of Chemists (India)

(1983), 55(3), 111-12

CODEN: JOICA7; ISSN: 0020-3254

DOCUMENT TYPE: Journal LANGUAGE: English

AB A thin-layer chromatog. method for sepn. and identification of stilbene-type optical whiteners is described. Silica gel H is used as the adsorbent and a 40:10:30:20 BuOH-EtOH-pyridine-NH4OH or 11:7:1:1 CHCl3-MeOH-NH4OH-H2O mixt. as the developing solvent. Rf Values are given for 10 different whiteners.

IT 87570-78-3 87570-79-4 87570-80-7 87570-81-8 87570-82-9 87570-83-0 87570-84-1 87570-85-2 87570-86-3 87588-72-5

RL: ANT (Analyte); ANST (Analytical study)
 (thin-layer chromatog. of)

RN 87570-78-3 HCAPLUS

CN Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[(phenylamino)carbonyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis[5-sulfo-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

• 4 Na

RN 87570-79-4 HCAPLUS

CN Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[[(2-methylphenyl)amino]carbonyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis[5-sulfo-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

RN 87570-80-7 HCAPLUS

CN Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[[[(3-methylphenyl)amino]carbonyl]amino]-1,3,5-triazine-4,2diyl]imino]]bis[5-sulfo-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

RN 87570-81-8 HCAPLUS

CN Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[[(4-methylphenyl)amino]carbonyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis[5-sulfo-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

RN 87570-82-9 HCAPLUS

CN Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[[(2-nitrophenyl)amino]carbonyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis[5-sulfo-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

RN 87570-83-0 HCAPLUS

CN Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[[[(4-nitrophenyl)amino]carbonyl]amino]-1,3,5-triazine-4,2diyl]imino]]bis[5-sulfo-, tetrasodium salt (9CI) (CA INDEX NAME)

ON NH C-NH NH CH CH CH SO3H

CO2H

SO3H

RN 87570-84-1 HCAPLUS

CN Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[[(2-chlorophenyl)amino]carbonyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis[5-sulfo-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

RN 87570-85-2 HCAPLUS

CN Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[[(3-chlorophenyl)amino]carbonyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis[5-sulfo-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

RN 87570-86-3 HCAPLUS

CN Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[[(4-chlorophenyl)amino]carbonyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis[5-sulfo-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

RN 87588-72-5 HCAPLUS

CN Benzoic acid, 2,2'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino[6-[[(3-nitrophenyl)amino]carbonyl]amino]-1,3,5-triazine-4,2-diyl]imino]]bis[5-sulfo-, tetrasodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

$$O_{2N}$$
 O_{2N}
 O

CC 41-10 (Dyes, Organic Pigments, Fluorescent Brighteners, and

Photographic Sensitizers)

Section cross-reference(s): 80

IT 87570-78-3 87570-79-4 87570-80-7

87570-81-8 87570-82-9 87570-83-0

87570-84-1 87570-85-2 87570-86-3

87588-72-5

RL: ANT (Analyte); ANST (Analytical study)

(thin-layer chromatog. of)

L35 ANSWER 5 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1971:465304 HCAPLUS

DOCUMENT NUMBER:

75:65304

TITLE:

Fluorescent whiteners consisting of

4,4'-bis(triazinylamino)-2,2'-stilbenedisulfonic

acid derivatives

INVENTOR(S):

Moeller, Hinrich; Bloching, Helmut; Werner,

Claus

PATENT ASSIGNEE(S):

Henkel und Cie. G.m.b.H.

SOURCE:

Ger. Offen., 31 pp.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1955431	A	19710506	DE 1969-1955431	196911
PRIORITY APPLN. INFO.:			DE 1969-1955431	04 196911

GI For diagram(s), see printed CA Issue.

AB Stilbene-type fluorescent whiteners (I, R1 = H, HOCH2CH2, R2 = H, HOCH2CH2, Ph, 4-C6H4CO2Na, 4-C6H4SO3Na or R1R2N = morpholino, R3 = H, PhCH2, R4 = H, R5 = H, CO2Na, Ph) were prepd. and used to whiten cotton and polyamide fabrics. I have esp. good compatibility with the quaternary ammonium salts used in textile softening compns. Thus, cyanuric chloride was treated with 4,4'-diaminostilbene-2,2'-disulfonic acid in the presence of borax in H2O at 0-5°, soda added, the mixt. treated with H3BO3 and 3-amino-s-triazole at 20°, soda added, the resulting mixt. treated with (HOCH2CH2)2NH and soda, and heated at 70° to give di-Na 4,4'-bis[4-(diethanolamino)-6-(s-triazol-3-ylamino)-s-triazin-2-ylamino]stilbene-2,2'-disulfonate (I, R1 = R2 = HOCH2CH2, R3 = R4 = R5 = H). Nine other I were similarly prepd.

IT 33144-31-9

RL: USES (Uses)

(fluorescence on cotton)

RN 33144-31-9 HCAPLUS

CN Benzoic acid, 4,4'-[vinylenebis[(3-sulfo-p-phenylene)imino[6-(s-triazol-3-ylamino)-s-triazine-4,2-diyl]imino]]di-, tetrasodium salt (8CI) (CA INDEX NAME)

PAGE 1-A

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

IC C07D; D06L

CC 40 (Dyes, Fluorescent Whitening Agents, and Photosensitizers)

33144-29-5 33144-30-8 **33144-31-9** 33144-32-0 IT

33144-33-1 33144-34-2 33144-35-3 33144-36-4 33144-37-5 33144-38-6 33306-24-0

RL: USES (Uses)

(fluorescence on cotton)

L35 ANSWER 6 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1971:59348 HCAPLUS 74:59348

DOCUMENT NUMBER: TITLE:

Photographic printing paper with improved

fluorescent whiteness

INVENTOR(S):

Amano, Hiroyuki; Tsuji, Nobuo; Miyazako,

Takushi; Shirasu, Kazuo; Tutiya, Yosinori

PATENT ASSIGNEE(S):

Fuji Photo Film Co., Ltd.

SOURCE:

Ger. Offen., 25 pp. CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2023151	Α	19701126	DE 1970-2023151	
				197005
				12
DE 2023151	C3	19781012		
US 3650752	Α	19720321	US 1970-36525	
				197005
				12
GB 1273085	Α	19720503	GB 1970-1273085	
				197005
				12
PRIORITY APPLN. INFO.:			JP 1969-36404 A	
				196905
				12

- AB The photog. paper is coated with a Ag halide light-sensitive layer contg. a fluorescent whitening agent and a partially urethanized poly(vinyl alc.). Thus, baryta paper is coated with a gelatin Ag(Cl,Br) emulsion contg. a fluorescent whitening agent (Leucophor B) and 7-15% urethanated poly(vinyl alc.) (I) to give greater fluorescence whiteness than papers coated with I-free compns. Color printing papers were also prepd.
- IT 32697-50-0

RL: USES (Uses)

(fluorescent whitening agents, contg. urethanized vinyl alc. polymer for photographic printing paper)

RN 32697-50-0 HCAPLUS

CN Poly[[6-[(4-carboxyphenyl)amino]-1,3,5-triazine-2,4-diyl]imino-1,2-ethanediylsulfonyl-1,2-ethanediylimino[6-[(4-carboxyphenyl)amino]-1,3,5-triazine-2,4-diyl]imino(3-sulfo-1,4-phenylene)-1,2-ethenediyl(2-sulfo-1,4-phenylene)imino tetrasodium salt] (9CI) (CA INDEX NAME)

PAGE 1-A

IC G03C

CC 74 (Radiation Chemistry, Photochemistry, and Photographic Processes)

IT 12768-91-1, Kayaphor S 29646-78-4 32697-50-0

RL: USES (Uses)

(fluorescent whitening agents, contg. urethanized vinyl alc. polymer for photographic printing paper)

L35 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1970:17276 HCAPLUS

DOCUMENT NUMBER:

72:17276

TITLE:

Color photographic copying paper

INVENTOR(S):

Amano, Hiroyuki; Nishio, Fumihiko; Tsuji, Nobuo;

Shirasu, Kazuo

PATENT ASSIGNEE(S):

Fuji Photo Film Co., Ltd.

SOURCE:

Ger. Offen., 41 pp. CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 1901443	A	19690828	DE 1969-1901443	
				196901 13
JP 48021288	B4	19730627	JP 1968-1669	
				196801 12
BE 726603	A	19690616	BE 1969-726603	

					196901 08
NL 6900374	Α	19690715	NL 1969-374		
					196901
					09
FR 2000186	A5	19690829	FR 1969-206		
					196901
					09
GB 1239732	A	19710721	GB 1969-1239732		
					196901
					10
US 3676139	Α	19720711	US 1969-790846		
		•			196901
					13
PRIORITY APPLN. INFO.:			JP 1968-1669	Α	
					196801
					12

GI For diagram(s), see printed CA Issue.

AΒ A paper substrate such as baryta paper, is coated with an uv absorption agent (2-20 mg/100 cm2) and a H2O-sol. fluorescent whitening agent (05-10 mg/100 cm2) having the general structures I and II, where R and R2 are H, C1-8 alkyl, C6-12 aryl, C2-4 hydroxyalkyl or a deriv., a C1-4 su lfoalkyl or an alkali or ammonium salt thereof; R1 is halogen, OR, SR, NR3R4, or NA, whereby R3 and R4 are H, C1-12 alkyl or hydroxyalkyl, sulfoalkyl or alkali or ammonium salt thereof, carboxyalkyl or alkali or ammonium salt thereof, C6-18 aryl, optionally substituted with OH, COOH, or SO3H, or an alkali- or ammonium salt thereof, an optionally substituted C2-10 cycloalkyl; A is a C4-5 alkylene, heterocyclic atom, or heterocyclic atom contq. an alkylene group; Y is optionally substituted C2-10 alkylene or optionally substituted C6-18 allylene; Z is a divalent heterocyclic atom or group, M is alkali metal or NH4; and m = 0 or 1.

32697-50-0, Poly[[6-(p-carboxyanilino)-s-triazine-2,4diyl]iminoethylenesulfonylethyleneimino[6-(p-carboxyanilino)-striazine-2,4-diyl]imino(3-sulfo-p-phenylene)vinylene(2-sulfo-pphenylene)imino tetrasodium salt]

RL: TEM (Technical or engineered material use); USES (Uses) (photographic color copying papers contg.)

RN 32697-50-0 HCAPLUS

CN Poly[[6-[(4-carboxyphenyl)amino]-1,3,5-triazine-2,4-diyl]imino-1,2-ethanediylsulfonyl-1,2-ethanediylimino[6-[(4-carboxyphenyl)amino]-1,3,5-triazine-2,4-diyl]imino(3-sulfo-1,4-phenylene)-1,2-ethenediyl(2-sulfo-1,4-phenylene)imino tetrasodium salt] (9CI) (CA INDEX NAME)

PAGE 1-A

●4 Na

IC G03C; C07D

CC 74 (Radiation Chemistry, Photochemistry, and Photographic Processes)

IT 1843-05-6 3896-11-5 6826-44-4 14542-01-9 19040-96-1

19530-42-8 26650-87-3 26650-91-9 26650-92-0 28416-03-7 32697-50-0, Poly[[6-(p-carboxyanilino)-s-triazine-2,4-diyl]iminoethylenesulfonylethyleneimino[6-(p-carboxyanilino)-s-triazine-2,4-diyl]imino(3-sulfo-p-phenylene)vinylene(2-sulfo-p-phenylene)imino tetrasodium salt]
RL: TEM (Technical or engineered material use); USES (Uses) (photographic color copying papers contq.)

L35 ANSWER 8 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1969:440227 HCAPLUS

DOCUMENT NUMBER: 71:40227

TITLE: Direct phthalocyanine green dyes

INVENTOR(S): Chmatal, Vladimir; Allan, Zdenek J.; Horyna,

Jaroslav; Panchartek, Josef; Virag, Oldrich

SOURCE: Czech., 3 pp.

CODEN: CZXXA9

DOCUMENT TYPE: Patent LANGUAGE: Czech

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CS 121263		19661215	CS	
				196405

05

GI For diagram(s), see printed CA Issue.

Brilliant green dyes of the general formula I (Pc is a Cu phthalocyanine residue) were prepd. and have a good light and wash fastness on cellulose. Thus, 32.2 parts of the equimol. condensate from 2,4-(H2N)2C6H3SO3H and cyanuric chloride was heated to 40° with 50.6 parts 3,1,5-H2NC10H5-(SO3H)2 → 4-H2NC6H4NHCOCH2 COMe, cooled to 20°, treated with aq. suspension of 94.9 parts Cu sulfophthalocyaninetris-(sulfonyl chloride), condensed with 9.2 parts benzidine, and heated for 1 hr. to 90-100° to give I [R = H, X = direct bond, Y = 1,5,3-(HO3S)2C10H5(Q)], a dark green powder sol. in H2O and concd. H2SO4. Similarly were prepd. green I (R, X, and Y given): H, NHCO, Q; SO3H, CH:CH, Q. Similarly prepd. were the yellowish green I (R = H, X = direct bond) with Y being 4,3-MeO(HO3S)C6H3 or 4,3-Me(HO3S)C6H3.

IT 26428-01-3P

RN 26428-01-3 HCAPLUS

CN Copper, [µ-[[tetradecahydrogen [vinylenebis[(3-sulfo-p-phenylene)imino[6-[p-[2-[(4,8-disulfo-2-naphthyl)azo]acetoacetamido]anilino]-s-triazine-4,2-diyl]imino(6-sulfo-m-phenylene)iminosulfonyl]]diphthalocyaninetrisulfonato](4-)]]di- (8CI) (CA INDEX NAME)

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PAGE 2-A

●14 H+

PAGE 2-B

PAGE 2-C

IC C09E

CC 40 (Dyes, Fluorescent Whitening Agents, and Photosensitizers)

IT 26427-99-6P 26428-00-2P **26428-01-3P** 26777-95-7P

27014-99-9P

RL: IMF (Industrial manufacture); PREP (Preparation)
 (prepn. of)

L35 ANSWER 9 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

EIC1700 REM4B28 571-272-3952

ACCESSION NUMBER: 1968:31050 HCAPLUS

DOCUMENT NUMBER: 68:31050

Stilbene optical brighteners

INVENTOR(S):

MEI HUANG

TITLE:

Roussos, Michel; Dutheil, Jacques

PATENT ASSIGNEE(S):

Societe de Produits Chimiques et de Synthese

SOURCE:

Fr., 3 pp. CODEN: FRXXAK

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 1479540		19670505	FR	

196603 25

GI For diagram(s), see printed CA Issue.

AB Compds. of the formula I, useful as optical brighteners for cellulose and polyamide fibers, were prepd. Thus, 320 g. ice and a soln. of 37 q. [4,2-H2N(NaO3S)C6H3CH:]2 in 320 cc. H2O were added at 5° to a soln. of 39.5 q. cyanuric chloride in 250 cc. Me2CO, the mixt. stirred at 8-10° for 1 hr., neutralized with NaOH, treated with 38 g. 4-H2NC6H4SO2NH2, heated at 35° for 150 min. while maintaining pH 6-7 with 30% NaOH, 31.6 g. N-(3-aminopropyl)morpholine and 18.5 g. NaHCO3 added, heated to 90-5°, Me2CO distd., the mixt. heated to 125° for 3 hrs., added to 1 l. H2O at 90°, and acidified (pH 4) with HCl to give I (X = 4-NHC6H4SO2NH2), E1%1 cm. = 480 at 350 m μ (50%) EtOH). Similarly, the following I were prepd. (X, λ max. in $m\mu$ and E1%1 cm. given): 4-NHC6H4CO2H, 347, 460; 4-NHC6H4SO2CH2CH2OH, 350, 400; NHMe, 348, 550; OMe, 345, 470; N(CH2CH2OH)2, 350, 450.

IT 17139-47-8P

> RL: IMF (Industrial manufacture); PREP (Preparation) (prepn. of)

RN17139-47-8 HCAPLUS

CN Benzoic acid, 4,4'-[vinylenebis[(3-sulfo-p-phenylene)imino[6-[(3morpholinopropyl)amino]-s-triazine-4,2-diyl]imino]]di- (8CI) (CA INDEX NAME)

IC C09B

CC 40 (Dyes, Fluorescent Brightening Agents, and Photosensitizers)

IT 17121-40-3P 17121-41-4P 17121-42-5P 17139-46-7P

17139-47-8P 17233-75-9P

L35 ANSWER 10 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1957:32217 HCAPLUS

DOCUMENT NUMBER: 51:32217 ORIGINAL REFERENCE NO.: 51:6173e

TITLE: Triazine dyes for cotton containing carbamoyl

hydrazide and its imido and thio analogs

INVENTOR(S): Strobel, Albert F.; Williams, Wm. W.

PATENT ASSIGNEE(S):

General Aniline & Film Corp.

DOCUMENT TYPE:

Patent

LANGUAGE:

Unavailable

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	NO. KIND		APPLICATION NO.	DATE
US 2768158		19561023	US 1953-345732	195303

3 30

AB See Brit. 751,997 (C.A. 51, 2299e).

IT 108924-43-2, Benzoic acid, 3,3'-[vinylenebis[(3-sulfo-pphenylene)imino[6-(2-amidinohydrazino)-s-triazine-2,4diyl]imino]]bis[6-(3-methyl-5-oxo-2-pyrazolin-4-ylazo)-(prepn. of)

108924-43-2 HCAPLUS RN

Benzoic acid, 3,3'-[vinylenebis[(3-sulfo-p-phenylene)imino[6-(2-CN amidinohydrazino)-s-triazine-2,4-diyl]imino]]bis[6-(3-methyl-5-oxo-2pyrazolin-4-ylazo) - (6CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

CC 25 (Dyes and Textiles Chemistry)

IT 108726-46-1, Salicylic acid, 5-[p-[[4-[[8-hydroxy-7-[4-(8-hydroxy-3,6-disulfo-1-naphthylazo)-6-methoxy-m-tolylazo]-3,6-disulfo-1naphthyl]amino]-6-thiosemicarbazido-s-triazin-2-yl]amino]phenylazo]- 108924-43-2, Benzoic acid, 3,3'-[vinylenebis[(3-sulfo-pphenylene) imino [6-(2-amidinohydrazino)-s-triazine-2,4diyl]imino]]bis[6-(3-methyl-5-oxo-2-pyrazolin-4-ylazo)-109129-48-8, Salicylic acid, 5-[p-[[4-(2-amidinohydrazino)-6-[[8hydroxy-7-[4-(8-hydroxy-3,6-disulfo-1-naphthylazo)-6-methoxy-mtolylazo] -3,6-disulfo-1-naphthyl] amino] -s-triazin-2yl]amino]phenylazo]-120856-77-1, 1-Naphthol-3-sulfonic acid, 6,6'-[(6-semicarbazido-s-triazine-2,4-diyl)diimino]bis[2-(2-hydroxy-4-sulfophenylazo) - 120856-77-1, 1-Naphthol-3-sulfonic acid, 6,6'-[(6-semicarbazido-s-triazine-2,4-diyl)diimino]bis[2-(2-hydroxy-4-sulfophenylazo)-, copper deriv. (prepn. of)

L35 ANSWER 11 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1957:10970 HCAPLUS

DOCUMENT NUMBER:

51:10970

ORIGINAL REFERENCE NO.: 51:2299e-i,2300a

TITLE:

Triazine dyes for cotton containing carbamoyl

hydrazide and its imido and thio analogs

PATENT ASSIGNEE(S):

General Aniline & Film Corp.

DOCUMENT TYPE:

Patent

LANGUAGE:

Unavailable

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 751997		19560704	GB 1954-9124	

195403

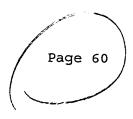
AΒ The following dyes are prepd. from C3N3Cl3, by condensing one of the Cl atoms with guanylhydrazine, semicarbazide, or thiosemicarbazide. Thus, 43.3 parts 5-nitroanthranilic acid is slurried with 1500 H2O, heated to 65° diazotized, treated 2 hrs. with 77 parts 4N NaOAc and the coupler soln. of 23.4 parts 3-methyl-5-pyrazolone in 200 water, which was treated with 20.4 parts 40% NaOH at 70°, then cooled to 25° at pH 9, and dild. to 250 parts. Yield 87.6%. This is reduced with Na2S in NaOH soln. to give an amino azo dye (III). 4,4'-Diamino-2,2'disulfostilbene (16 parts) is dissolved in 250 H2O and 25 Na2CO3 20% on a steambath, then cooled to 0°; 14.2 parts C3N3Cl3 in 60 Me2CO at 35° is poured into the diamine soln. at 1-4° pH 6.7-7.0. After 20 min., 0.531 N NaOH is added to neutralize the liberated acid to pH 5.5-6.5; 22.5 parts of III is dissolved in 750 water at 100°, cooled to 60°, poured onto 600 ice, then the condensation product is added; the temp. rises to 8°; 78 ml. 0.531N NaOH is added in 10 min. to bring the pH to 7.0, then the temp. is kept at 8-15° for one hr. A gelatinous mass is formed; 51.6 ml. more of 0.531N NaOH is added to bring pH to 10.3, heated up to 40° in 20 min., 45° for 30 min. The total time of condensation is 5 hrs. The next day the pH is 6.7. In the third

condensation 10.5 parts quanylhydrazine bicarbonate (IV) is slurried with 70 ml. 3.7% HCl, which is added to the second condensation product at 27° at pH 7.0 to 10.9, heated to 90° in 40 min., and kept there for 100 min. The pH is brought to 11.3 with NaOH, the vol. is 3.5 1. at 70°; then 0.5 part more IV is added and kept at 95° for 5 hrs. The dye (48.5 parts) is dried in vacuum. It dyes cotton orange-yellow, which is made fast to light and washing on after-treatment with Cu salt polymer mixt. Similar dyes are obtained by using thiosemicarbazide, or semicarbazide instead of IV. Another dye is prepd. from 1 mole C3N3Cl3, 1 mole IV, 1 mole 4'-amino-3-carboxy-4-hydroxyazobenzene, and 1 mole of the disazo dye, prepd. from 1 mole diazotized 8-amino-1-naphthol-3,6-disulfonic acid (V) coupled with 2methoxy-5-methylaniline and the resulting amino azo dye diazotized and coupled with V. A similar dye is obtained by using thiosemicarbazide instead of IV. Another dye is prepd. similarly from 1 mole C3N3Cl3, 1 mole semicarbazide, and 2 moles of the azo dye prepd. from diazotized 2-aminophenol-5-sulfonic acid and 1 acid, followed by coppering. A similar dye is obtained by using IV instead of semicarbazide.

IT 108924-43-2, Benzoic acid, 3,3'-{vinylenebis{(3-sulfo-p-phenylene)imino[6-(2-amidinohydrazino)-s-triazine-2,4-diyl]imino}}bis[6-(3-methyl-5-oxo-2-pyrazolin-4-ylazo)-(prepn. of)

RN 108924-43-2 HCAPLUS

CN Benzoic acid, 3,3'-[vinylenebis[(3-sulfo-p-phenylene)imino[6-(2-amidinohydrazino)-s-triazine-2,4-diyl]imino]]bis[6-(3-methyl-5-oxo-2-pyrazolin-4-ylazo)- (6CI) (CA INDEX NAME)



CC 25 (Dyes and Textiles Chemistry) IT 3,6-disulfo-1-naphthylazo)-6-methoxy-m-tolylazo]-3,6-disulfo-1naphthyl amino }-6-thiosemicarbazido-s-triazin-2-yl amino }phenylazo }-108924-43-2, Benzoic acid, 3,3'-{vinylenebis{(3-sulfo-pphenylene) imino [6-(2-amidinohydrazino)-s-triazine-2,4diyl]imino}}bis[6-(3-methyl-5-oxo-2-pyrazolin-4-ylazo)-109129-48-8, Salicylic acid, $5-\{p-\{\{4-(2-amidinohydrazino)-6-\{\{8-(2-amidinohydrazino)\}\}\}\}$ hydroxy-7-[4-(8-hydroxy-3,6-disulfo-1-naphthylazo)-6-methoxy-mtolylazo]-3,6-disulfo-1-naphthyl}amino}-s-triazin-2yl}amino}phenylazo}- 120856-77-1, 1-Naphthol-3-sulfonic acid, 6,6'-[(6-semicarbazido-s-triazine-2,4-diyl)diimino]bis[2-(2-hydroxy-4-sulfophenylazo) -(prepn. of)

L35 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER:

1950:54367 HCAPLUS

DOCUMENT NUMBER:

44:54367

ORIGINAL REFERENCE NO.:

44:10329d-i,10330a-c

TITLE:

Substantive azo dyes

PATENT ASSIGNEE(S):

J. R. Geigy, A.-G.

DOCUMENT TYPE:

Patent

LANGUAGE:

Unavailable

LANGUAGE:

. 1

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 616523		19490124	GB 1944-16588	
				194408
				31

GI For diagram(s), see printed CA Issue.

AB Compds. obtained by condensation of 2 mols. of cyanuric chloride successively with 1 mol. of a deriv. of 4,4'-diaminostilbene, 2 mols. of an arylazoarylamine, and 2 mols. of another amine dyed cotton directly fast yellow to red shades. These dyes have the general formula (I), where Y may be replaced by residues from groups A, B, or C. Compds. of group A are 4-amino-1,1'-azobenzene-3'-

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sulfonic acid, 4-amino-3-methoxy-1,1'-azobenzene-3'-carboxylic acid,
the compd. from 2-amino-4,8-naphthalenedisulfonic acid and
3-aminoacetanilide, the compd. from 1-diazo-8-(p-tolylsulfonyloxy)-
3,6-naphthalenedisulfonic acid and 1-amino-5-methyl-2-
methoxybenzene, the compd. from 1-diazo-8-(p-
tolylsulfonyloxy) naphthalene and 1-amino-5-methyl-2-methoxybenzene,
4-amino-2-acetamido-4'-chloro-1,1'-azobenzene-3'-sulfonic acid,
4-amino-4'-hydroxy-1,1'-azobenzene-3'-carboxylic acid,
4-amino-2-methoxy-2'-hydroxy-1,1'-azobenzene-5'-sulfonic acid,
2-amino-5-hydroxy-7-naphthalenesulfonic acid coupled with diazotized
o-aminobenzoic acid, diazotized 4-amino-1,1'-azobenzene coupled with
2-amino-5-hydroxy-7-naphthalenesulfonic acid, 4-amino-2-methyl-6-
methoxy-4'-acetamido-1,1'-azobenzene-5'-sulfonic acid,
4-amino-2-methyl-4'-hydroxy-3'-carboxy-1,1'-azobenzene-5'-sulfonic
acid, the compd. from 1-amino-4-hydroxy-3-carboxy-5-benzenesulfonic
acid and 1-amino-3-methyl-6-methoxybenzene, 4-amino-2-methyl-5-
methoxy-1,1'-azobenzene-4'-sulfonic acid, the compd. from
anthranilic acid diazotized and coupled with 2-(3-aminobenzamido)-5-
hydroxy-7-naphthalenesulfonic acid, the compd. from diazotized
1-amino-8-(p-tolylsulfonyloxy)-3,6-naphthalene-disulfonic acid and
1-amino-2-methoxy-5-methylbenzene diazotized and coupled with
2-amino-5-hydroxy-7-naphthalenesulfonic acid, the compd. from
1-[3-(or 4)-aminobenzamido]-4-hydroxy-3-carboxy-5-benzenesulfonic
acid diazotized and coupled with 1-amino-3-methyl-6-methoxybenzene.
Compds. in group B are Me2NH, PhNH2.HCl, 3-aminoacetanilide,
1-chloro-2,4-diaminobenzene, 1-amino-4-hydroxy-3-benzenecarboxylic
acid, PhNHMe, NH3, 1-amino-4-hydroxy-3-carboxy-5-benzenesulfonic
acid, p-phenylenediamine, 5-amino-2-[2-(or 4)-hydroxy-3-carboxy-5-
sulfophenyl]-1,3-benzotriazole, 4'-amino-5,6'-dimethyl-4-
hydroxydiphenylmethane-3-carboxylic acid. Compds. from group C are
4-amino-3-methoxy-1,1'-azobenzene-3'-carboxylic acid,
4-amino-4'-hydroxy-1,1'-azobenzene-3'-carboxylic acid,
4-amino-2-methoxy-2'-hydroxy-1,1'-azobenzene-5'-sulfonic acid,
4-amino-2,5-dimethoxy-2'-hydroxy-1,1'-azobenzene-5'-sulfonic acid.
The fastness of these dyes is considerably improved by after
treatments with metal salts or HCHO, or by sapon. and development
with 1-phenyl-3-methyl-5-pyrazolone. A dye was also prepd. from
cyanuric chloride and 4,4'-diamino-3,3'-stilbenedicarboxylic acid
treated with 4-amino-2-acetamido-4'-chloro-1,1'-azobenzene-3'-
sulfonic acid and PhNH2.HCl. 4,4'-Diamino-2,2'-bibenzyldisulfonic
acid and cyanuric chloride were treated with 4-amino-4'-hydroxy-1,1'-
azobenzene-3'-carboxylic acid and PhNH2.
857755-35-2, 2,2'-Stilbenedisulfonic acid,
4,4'-bis[4-(3-carboxy-4-hydroxy-5-sulfoanilino)-6-[4-(m-
carboxyphenylazo) -o-anisidino] -s-triazin-2-ylamino] -
858239-39-1, 2,2'-Stilbenedisulfonic acid,
4,4'-bis[4-(3-carboxy-4-hydroxyanilino)-6-[p-(m-
sulfophenylazo) anilino] -s-triazin-2-ylamino] - 858239-43-7,
2,2'-Stilbenedisulfonic acid, 4,4'-bis[4-(3-carboxy-4-
hydroxyanilino) -6-[5-methyl-4-(p-sulfophenylazo)-o-anisidino]-s-
triazin-2-ylamino] - 858239-49-3, 2,2'-Stilbenedisulfonic
acid, 4,4'-bis[4-(3-carboxy-4-hydroxyanilino)-6-[p-(3-carboxy-4-
```

IT

hydroxyphenylazo)anilino]-s-triazin-2-ylamino] (prepn. of)

RN 857755-35-2 HCAPLUS

CN 2,2'-Stilbenedisulfonic acid, 4,4'-bis[4-(3-carboxy-4-hydroxy-5-sulfoanilino)-6-[4-(m-carboxyphenylazo)-o-anisidino]-s-triazin-2-ylamino]- (5CI) (CA INDEX NAME)

PAGE 1-A

$$HO_2C$$
 OH
 SO_3H
 OMe
 NH
 NH
 NH
 SO_3H
 CH
 CH
 CH

PAGE 1-B

RN 858239-39-1 HCAPLUS

CN 2,2'-Stilbenedisulfonic acid, 4,4'-bis[4-(3-carboxy-4-hydroxyanilino)-6-[p-(m-sulfophenylazo)anilino]-s-triazin-2-ylamino](5CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

RN 858239-43-7 HCAPLUS

CN 2,2'-Stilbenedisulfonic acid, 4,4'-bis[4-(3-carboxy-4-hydroxyanilino)-6-[5-methyl-4-(p-sulfophenylazo)-o-anisidino]-s-triazin-2-ylamino]- (5CI) (CA INDEX NAME)

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__ Me

PAGE 2-B

RN 858239-49-3 HCAPLUS

CN 2,2'-Stilbenedisulfonic acid, 4,4'-bis[4-(3-carboxy-4-hydroxyanilino)-6-[p-(3-carboxy-4-hydroxyphenylazo)anilino]-s-triazin-2-ylamino]- (5CI) (CA INDEX NAME)

PAGE 1-A

HO
$$_{\rm NH}$$
 $_{\rm NH}$ $_{\rm NH}$ $_{\rm NH}$ $_{\rm CH}$ $_{\rm CH}$ $_{\rm CH}$

CC 25 (Dyes and Textiles Chemistry) IT 85895-89-2, 1-Phenol-4-sulfonic acid, 2-(4-amino-2,5dimethoxyphenylazo) - 857755-35-2, 2,2'-Stilbenedisulfonic acid, 4,4'-bis[4-(3-carboxy-4-hydroxy-5-sulfoanilino)-6-[4-(mcarboxyphenylazo) -o-anisidino] -s-triazin-2-ylamino] -2,2'-Stilbenedisulfonic acid, 4-[4-(m-acetamidoanilino)-6-[p-(3carboxy-4-hydroxyphenylazo)anilino]-s-triazin-2-ylamino]-4'-[4,6bis(m-acetamidoanilino)-s-triazin-2-ylamino]- 858239-39-1, 2,2'-Stilbenedisulfonic acid, 4,4'-bis[4-(3-carboxy-4hydroxyanilino)-6-[p-(m-sulfophenylazo)anilino]-s-triazin-2-ylamino]-858239-43-7, 2,2'-Stilbenedisulfonic acid, 4,4'-bis[4-(3-carboxy-4-hydroxyanilino)-6-[5-methyl-4-(psulfophenylazo) -o-anisidino] -s-triazin-2-ylamino] -858239-49-3, 2,2'-Stilbenedisulfonic acid, 4,4'-bis[4-(3-carboxy-4-hydroxyanilino)-6-[p-(3-carboxy-4hydroxyphenylazo)anilino]-s-triazin-2-ylamino]- 860421-92-7, 2,2'-Stilbenedisulfonic acid, 4-[4-[3-acetamido-4-(4-chloro-3sulfophenylazo)anilino]-6-anilino-s-triazin-2-ylamino]-4'-[4-anilino-6-(3-carboxy-4-hydroxyanilino)-s-triazin-2-ylamino]-860422-46-4, Salicylic acid, 5-[p-[4-anilino-6-[4-[4-(4,6-dianilino-s-triazin-2ylamino) -2-sulfostyryl] -3-sulfoanilino] -s-triazin-2vlamino]phenylazo] -860422-46-4, 2,2'-Stilbenedisulfonic acid, 4-[4-anilino-6-[p-(3-carboxy-4-hydroxyphenylazo)anilino]-s-triazin-2ylamino] -4'-(4,6-dianilino-s-triazin-2-ylamino) -860422-49-7, Salicylic acid, 5-[p-[4-anilino-6-[4-[4-[4-anilino-6-[4-(2-hydroxy-5sulfophenylazo)-2,5-dimethoxyanilino]-s-triazin-2-ylamino]-2sulfostyryl]-3-sulfoanilino]-s-triazin-2-ylamino]phenylazo]-860422-49-7, 2,2'-Stilbenedisulfonic acid, 4-[4-anilino-6-[p-(3carboxy-4-hydroxyphenylazo)anilino]-s-triazin-2-ylamino]-4'-[4anilino-6-[4-(2-hydroxy-5-sulfophenylazo)-2,5-dimethoxyanilino]-striazin-2-ylamino]-860422-51-1, 2,2'-Stilbenedisulfonic acid, 4-[4-anilino-6-[p-(3-carboxy-4-hydroxyphenylazo)anilino]-s-triazin-2ylamino]-4'-[4-anilino-6-[4-(2-hydroxy-5-sulfophenylazo)-manisidino]-s-triazin-2-ylamino]- 860422-51-1, Salicylic acid, 5-[p-[4-anilino-6-[4-[4-[4-anilino-6-[4-(2-hydroxy-5-sulfophenylazo)m-anisidino]-s-triazin-2-ylamino]-2-sulfostyryl]-3-sulfoanilino]-s-

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triazin-2-ylamino]phenylazo] - 860422-55-5, 2,2'-Stilbenedisulfonic
acid, 4,4'-bis[4-anilino-6-[4-(3-carboxy-4-hydroxy-5-sulfophenylazo)-
m-toluidino]-s-triazin-2-ylamino]- 860422-85-1,
2,2'-Stilbenedisulfonic acid, 4,4'-bis[4-(m-acetamidoanilino)-6-[p-
(3-carboxy-4-hydroxyphenylazo)anilino]-s-triazin-2-ylamino]-
872827-33-3, 2,2'-Stilbenedisulfonic acid, 4,4'-bis[4-anilino-6-[4-
(m-carboxyphenylazo) -o-anisidino] -s-triazin-2-ylamino] -
873375-83-8, 2,2'-Stilbenedisulfonic acid, 4-[4-(m-acetamidoanilino)-
6-[4-(m-carboxyphenylazo)-o-anisidino]-s-triazin-2-ylamino]-4'-[4,6-
bis(m-acetamidoanilino)-s-triazin-2-ylamino]-
2,2'-Stilbenedisulfonic acid, 4-[4,6-bis(dimethylamino)-s-triazin-2-
ylamino] -4' - [4-[4-(m-carboxyphenylazo) -o-anisidino] -6-dimethylamino-
s-triazin-2-ylamino] - 873400-66-9, 2,2'-Stilbenedisulfonic acid,
4,4'-bis[4-anilino-6-[p-(m-sulfophenylazo)anilino]-s-triazin-2-
vlaminol-
            873400-68-1, 2,2'-Stilbenedisulfonic acid,
4-[4-anilino-6-[4-(m-carboxyphenylazo)-o-anisidino]-s-triazin-2-
ylamino] -4' - (4,6-dianilino-s-triazin-2-ylamino) -
                                                 874503-51-2,
2,2'-Stilbenedisulfonic acid, 4-[4-anilino-6-[4-(2-hydroxy-5-
sulfophenylazo) -m-anisidino] -s-triazin-2-ylamino] -4'-(4,6-dianilino-
s-triazin-2-ylamino) - 874503-63-6, 2,2'-Stilbenedisulfonic acid,
4-[4-[4-(4-acetamido-3-sulfophenylazo)-5-methyl-o-anisidino]-6-
anilino-s-triazin-2-ylamino]-4'-(4,6-dianilino-s-triazin-2-ylamino)-
874503-77-2, 2,2'-Stilbenedisulfonic acid, 4-[4-[3-acetamido-4-(4-
chloro-3-sulfophenylazo)anilino]-6-anilino-s-triazin-2-ylamino]-4'-
(4,6-dianilino-s-triazin-2-ylamino) -
                                       874503-89-6,
2,2'-Stilbenedisulfonic acid, 4,4'-bis[4-[p-(3-carboxy-4-
hydroxyphenylazo) anilino]-6-N-methylanilino-s-triazin-2-ylamino]-
874503-95-4, 2,2'-Stilbenedisulfonic acid, 4,4'-bis[4-anilino-6-[5-
methyl-4-(p-sulfophenylazo)-o-anisidino]-s-triazin-2-ylamino]-
874503-97-6, 2,2'-Stilbenedisulfonic acid, 4,4'-bis[4-anilino-6-[4-
(2-hydroxy-5-sulfophenylazo)-m-anisidino]-s-triazin-2-ylamino]-
874503-99-8, 2,2'-Stilbenedisulfonic acid, 4,4'-bis[4-[3-acetamido-4-
(4-chloro-3-sulfophenylazo)anilino]-6-dimethylamino-s-triazin-2-
ylamino] - 874504-01-5, 2,2'-Stilbenedisulfonic acid,
4,4'-bis[4-[3-acetamido-4-(4-chloro-3-sulfophenylazo)anilino]-6-
amino-s-triazin-2-ylamino] - 875235-79-3, 2,2'-Stilbenedisulfonic
acid, 4,4'-bis[4-(m-acetamidoanilino)-6-[3-acetamido-4-(4-chloro-3-
sulfophenylazo) anilino] -s-triazin-2-ylamino] -
   (prepn. of)
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=> d 136 ibib abs hitstr hitind 1-3

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L36 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:539669 HCAPLUS

DOCUMENT NUMBER: 137:95166

TITLE: Preparation of 4,4'-bis(triazinylamino)-stilbene-
2,2'-disulfonic acid compounds

INVENTOR(S): Metzger, Georges; Reinehr, Dieter; Sauter,
Hanspeter; Dbaly, Helena

PATENT ASSIGNEE(S): Ciba Specialty Chemicals Holding Inc., Switz.

SOURCE: PCT Int. Appl., 14 pp.
```

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

GI

English

FAMILY ACC. NUM. COUNT:

1

PATENT INFORMATION:

	PATENT NO.					KIND DATE			APPLICATION NO.						DATE		
WO	2002	2002055509		A1	A1 20020718		WO 2002-EP70							200201			
	W:	CN, GE, LC, NO, TM,	CO, GH, LK, NZ, TN,	CR, GM, LR, OM, TR,	CU, HR, LS, PH, TT,	CZ, HU, LT, PL, TZ,	DE, ID, LU, PT, UA,	DK, IL, LV, RO, UG,	DM, IN, MA, RU, US,	DZ, IS, MD, SD,	EC, JP, MG, SE,	EE, KE, MK, SG,	ES, KG, MN, SI,	FI, KP, MW, SK,	CA GB KR MX SL	07 , CH, , GD, , KZ, , MZ, , TJ, , AM,	
	RW:	GH, CH, SE,	GM, CY,	KE, DE, BF,	LS, DK,	MW, ES,	FI,	SD, FR,	SL, GB,	GR,	IE,	IT,	LU,	MC,	NL	, BE, , PT, , NE,	
EP	1358	166			A1		2003	1105		EP 2	002-	7153	96			200201 07	
BR	R: 2002	PT,	IE,	SI,	LT,	LV,	ES, FI, 2004	RO,	MK,	CY,	AL,	TR	LU,	NL,	SE	, MC,	
JP	2004!	5171	39		Т2		2004	0610	,	JP 2	002-	5561	79			200201 07 200201	
US	2004	0637	06		A 1		2004	0401	1	US 2	003-	2508	43			07 200307	
PRIORITY	APP	LN.	INFO	.:					:	EP 2	001-	8100:	28		A	07 200101 12	
									1	WO 2	002-1	EP70				200201 07	

OTHER SOURCE(S): CASREACT 137:95166; MARPAT 137:95166

^{*} STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

- AB 4,4'-Bis(triazinylamino)-stilbene-2,2'-disulfonic acid compd. I (R1 = amino, alkylamino, (un)substituted hydroxyalkylamino, (un)substituted hydroxyalkylalkylamino, cycloalkylamino, arylamino, aralkylamino, morpholino, piperidino, pyrrolidino residue; M = H, Na, Li, K, Ca, Mg, (un)substituted ammonium) is prepd. by reacting a compd. II (R2 = (un)substituted C1-10 alkyl; X = halogen) with ≥4 mol amine R1H or its mixt.

PAGE 1-A

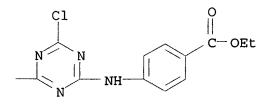
C1 SO3H SO3H

EtO-C NH NH NH

•2 Na

NU

PAGE 1-B



- IC ICM C07D251-68
- CC 41-10 (Dyes, Organic Pigments, Fluorescent Brighteners, and
 Photographic Sensitizers)
 Section cross-reference(s): 28
- IT 74-89-5, Methylamine, reactions 141-43-5, Ethanolamine, reactions 175391-29-4

RL: RCT (Reactant); RACT (Reactant or reagent)
 (prepn. of 4,4'-bis(triazinylamino)-stilbene-2,2'-disulfonic acid
 compds.)

REFERENCE COUNT:

THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L36 ANSWER 2 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

5

ACCESSION NUMBER: 1996:623017 HCAPLUS

DOCUMENT NUMBER: 125:250378

TITLE: Triazinylstilbene derivatives, their preparation

and use

INVENTOR(S): Reinehr, Dieter; Eckhardt, Claude; Hochberg,

Robert; Kaufmann, Werner; Metzger, Georges

PATENT ASSIGNEE(S): Ciba-Geigy AG, Switz.; Ciba Specialty Chemicals

Holding Inc.

SOURCE: Eur. Pat. Appl., 21 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	TENT NO.		KIND	DATE	A -	P I	PLICATION NO.	DATE
EP	728749		A2	19960828	E	P	1996-810086	199602 13
EP	728749 728749		B1	19970226 20030416				
	R: BE, 2194088			, GB, IT, 20031116			1996-810086	
						_		199602 13
GB	2298422		A1	19960904	G:	В	1996-3289	199602
GB	2298422		B2	19970129				16
ZA	9601362		A	19960822	Z	A	1996-1362	199602
AU	9645667		Al	19960829	A	IJ	1996-45667	21 199602
AU	702886		B2	19990311				21
US	5744599		A	19980428	U	S	1996-604536	199602
JP	09003052		A 2	19970107	J	Р	1996-34475	21 199602
ממ	0600703		7.	10071222	D 1	.	1006 703	22
вк	9600793		A	19971223	В	ĸ	1996-793	199602 22

US 6015504 A 20000118 US 1998-13657

199801 26

PRIORITY APPLN. INFO.:

GB 1995-3474

199502

22

Α

A3

US 1996-604536

199602

21

OTHER SOURCE(S):

MARPAT 125:250378

GI

The compds., which are useful as UV-absorbing agents and as fluorescent whitening agents and improve the sun protection factor (SPF) of textile fiber material, esp. cotton, polyamide and wool, treated with them, have the structure I [M = H, alkali metal, ammonium, aminium; R = H, SO3M; R1 = substituted NHPh; R2 = H, (un)substituted alkyl or aryl, OH, alkoxy, aryloxy, morpholino, (un)substituted amino; m = 0, 1]. Thus, cyanuric chloride was condensed successively with 4,4'-diaminostilbene-2,2'-disulfonic acid, 4-H2NC6H4CO2Et, aq. Na2CO3, and NH4OH to give I (M = Na, R = SO3Na, R1 = NHC6H4CO2Et-4, R2 = NH2, m = 1) (II), λmax 3O4, 353 nm. Treatment of a cotton fabric with a 0.2% aq. soln. of II increased the SPF from 5.5 to 36.5.

IT 175391-29-4P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of triazinyl stilbene derivs. as UV absorbers and fluorescent brighteners)

RN 175391-29-4 HCAPLUS

CN Benzoic acid, 4,4'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino(6-chloro-1,3,5-triazine-4,2-diyl)imino]]bis-, 1,1'-diethyl ester, disodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

2 Na

PAGE 1-B

IC ICM C07D251-50

ICS C07D251-54; C07D251-48; D06M013-358; D06L003-12; C11D003-28

CC 41-10 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)

Section cross-reference(s): 40, 46

IT 175391-29-4P

RL: IMF (Industrial manufacture); RCT (Reactant); PREP

(Preparation); RACT (Reactant or reagent)

(prepn. of triazinyl stilbene derivs. as UV absorbers and fluorescent brighteners)

L36 ANSWER 3 OF 3 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:228491 HCAPLUS

DOCUMENT NUMBER: 124:289580

TITLE: Preparation of triazole and 2,4-

dihydroxybenzophenone derivatives having

ultra-violet absorption properties

INVENTOR(S): Bacher, Jean-Pierre; Kaufmann, Werner; Reinehr,

Dieter

PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.

SOURCE: Eur. Pat. Appl., 38 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA.	FENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP	693483			EP 1995-810388	199506 12
	693483 R: BE, CH, DE				
	5741905			US 1995-471816	199506 06
EP	1170290	A2	20020109	EP 2001-123273	199506 12
		B1	20031105 20060607 . IT. LI		
AU	9523229	A1	19960208	AU 1995-23229	199506 21
	697798 9505166		19981015	ZA 1995-5166	
					199506 22
JP	08041003	A2	19960213	JP 1995-157769	199506 23
GB	2291644	A1	19960131	GB 1995-14407	199507 14
	2291644		19980902		
US	6045586	A	20000404	US 1998-9864	199801 22
PRIORITY	APPLN. INFO.:			GB 1994-14881 A	199407 23
				GB 1994-17562 F	199409 01
				US 1995-471816 A	199506 06
				EP 1995-810388 P	199506 12

OTHER SOURCE(S): MARPAT 124:289580

- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- The title compds. A(B-D)m [m = 1, 2; A = Q (wherein R = PhCO, AB benzotriazol-2-yl), Q1, Q2, Q3; R1 = Q [wherein R = (un)substituted Ph], glycidyloxy, OCH2CONHCH2OH, OCH2CON(CH2OH)2; X = F, Cl, NHCH2OH; X1 = F, Cl, NHCH2OH, Q4; wherein B = O, NH, SO2; R2 = alkoxycarbonyl, alkanoyl, SO3M, SO2CH2CH2OSO3M, etc.; M = H, Na, K, Ca, Mg, NH4, mono-, di-, tri-, or tetraalkylammonium that is di- or tri-substituted by a mixt. of C1-4 alkyl and C1-4 hydroxyalkyl group, or when A is a residue of formula Q1 or Q2; D = qlycidyl, CH2CONHCH2OH, CH2CON(CH2OH)2, or CH2CH2OSO3M, or when A = Q1 or Q2, D = Q4 (wherein R2 = alkoxycarbonyl, SO3M, SO2CH2CH2OSO3M), Q5 (wherein n = 0,1), Q6 (wherein X, X1, M = same as above), which are useful as UV absorbing agents and to a method of improving the sun protection of textile fiber material, are prepd. Thus, 13.1 g 2-(2,4-dihydroxyphenyl)-4,6-diphenyl-1,3,5-triazine was stirred with 7.3 g K2CO3 and 100 mL epichlorohydrin over 5 h at 110° to give, after workup, the title compd. (I) in 88.1% yield. A bleached cotton cretonne was treated with an aq. soln. contg. 2 g/L 40% AcOH and 250 g/L I, dried, and thermofixed at 170° to give a fabric with sun protection factor (SPF) 41.

IT 175391-29-4P

RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(prepn. of triazole and dihydroxybenzophenone derivs. as ultra-violet absorbers for sun protection of textiles)

RN 175391-29-4 HCAPLUS

CN Benzoic acid, 4,4'-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene)imino(6-chloro-1,3,5-triazine-4,2-diyl)imino]]bis-, 1,1'-diethyl ester, disodium salt (9CI) (CA INDEX NAME)

PAGE 1-A

●2 Na

IC ICM C07D251-24 D06M013-00; C07D405-12; C07D251-70; C07D251-44; C07D251-50; C07D403-12; C07D403-14; C07D251-42 CC 28-19 (Heterocyclic Compounds (More Than One Hetero Atom)) 26464-76-6P 138968-60-2P 140613-28-1P 175391-13-6P IT 175391-14-7P 175391-15-8P 175391-16-9P 175391-17-0P 175391-19-2P 175391-18-1P 175391-20-5P 175391-21-6P 175391-22-7P 175391-23-8P 175391-24-9P 175391-25-0P 175391-26-1P 175391-27-2P 175391-28-3P 175391-29-4P 175391-30-7P 175391-31-8P 175391-32-9P 175391-33-0P 175391-34-1P 175391-35-2P 175391-36-3P 175391-37-4P 175391-38-5P 175391-39-6P 175391-40-9P RL: MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses) (prepn. of triazole and dihydroxybenzophenone derivs. as

ultra-violet absorbers for sun protection of textiles)

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FILE LAST UPDATED: 01 May 1997 (19970501/UP)

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L39 ANSWER 1 OF 2 CAOLD COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: CA51:6173e CAOLD

TITLE: dianthrone ethylene derivs. contg. Br

AUTHOR NAME: Schwamberger, Emil

PATENT ASSIGNEE: Cassella Farbwerke Mainkur Akt.-Ges.

DOCUMENT TYPE: Patent

TITLE: dyes (triazine) for cotton contg. carbamoyl hydrazide

and its imido and thio analogs

PATENT ASSIGNEE: General Aniline & Film Corp.

DOCUMENT TYPE: Patent

TITLE: triazine dyes for cotton contg. carbamoyl hydrazide

and its imido and thio analogs

AUTHOR NAME: Strobel, Albert F.; Williams, W. W.

DOCUMENT TYPE: Patent

INDEX TERM: 81-11-8 108-26-9 616-79-5 108726-46-1

108924-43-2 109129-48-8 120856-77-1

128974-41-4

IT 108924-43-2

RN 108924-43-2 CAOLD

CN Benzoic acid, 3,3'-[vinylenebis[(3-sulfo-p-phenylene)imino[6-(2-amidinohydrazino)-s-triazine-2,4-diyl]imino]]bis[6-(3-methyl-5-oxo-2-pyrazolin-4-ylazo)- (6CI) (CA INDEX NAME)

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PAGE 1-B

L39 ANSWER 2 OF 2 CAOLD COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: CA51:2299e CAOLD

TITLE: dyes (triazine) for cotton contq. carbamoyl hydrazide

and its imido and thio analogs

PATENT ASSIGNEE: General Aniline & Film Corp.

DOCUMENT TYPE: Patent

PATENT NO. KIND DATE

PI GB 751997

INDEX TERM: 81-11-8 108-26-9 616-79-5 108726-46-1

108924-43-2 109129-48-8

IT 108924-43-2

RN 108924-43-2 CAOLD

CN Benzoic acid, 3,3'-[vinylenebis[(3-sulfo-p-phenylene)imino[6-(2-amidinohydrazino)-s-triazine-2,4-diyl]imino]]bis[6-(3-methyl-5-oxo-2-pyrazolin-4-ylazo)- (6CI) (CA INDEX NAME)

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PAGE 1-B